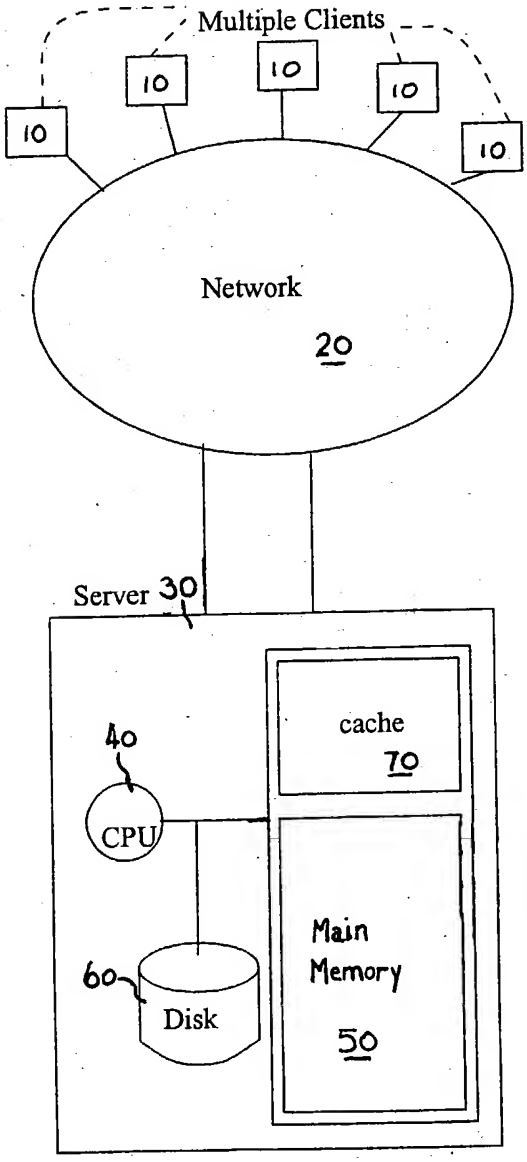
FIG. 1


Multiple Clients
10
10
10
10
10
Network
20
Server 30
40
CPU
cache
70
Main
Memory
50
60
Disk

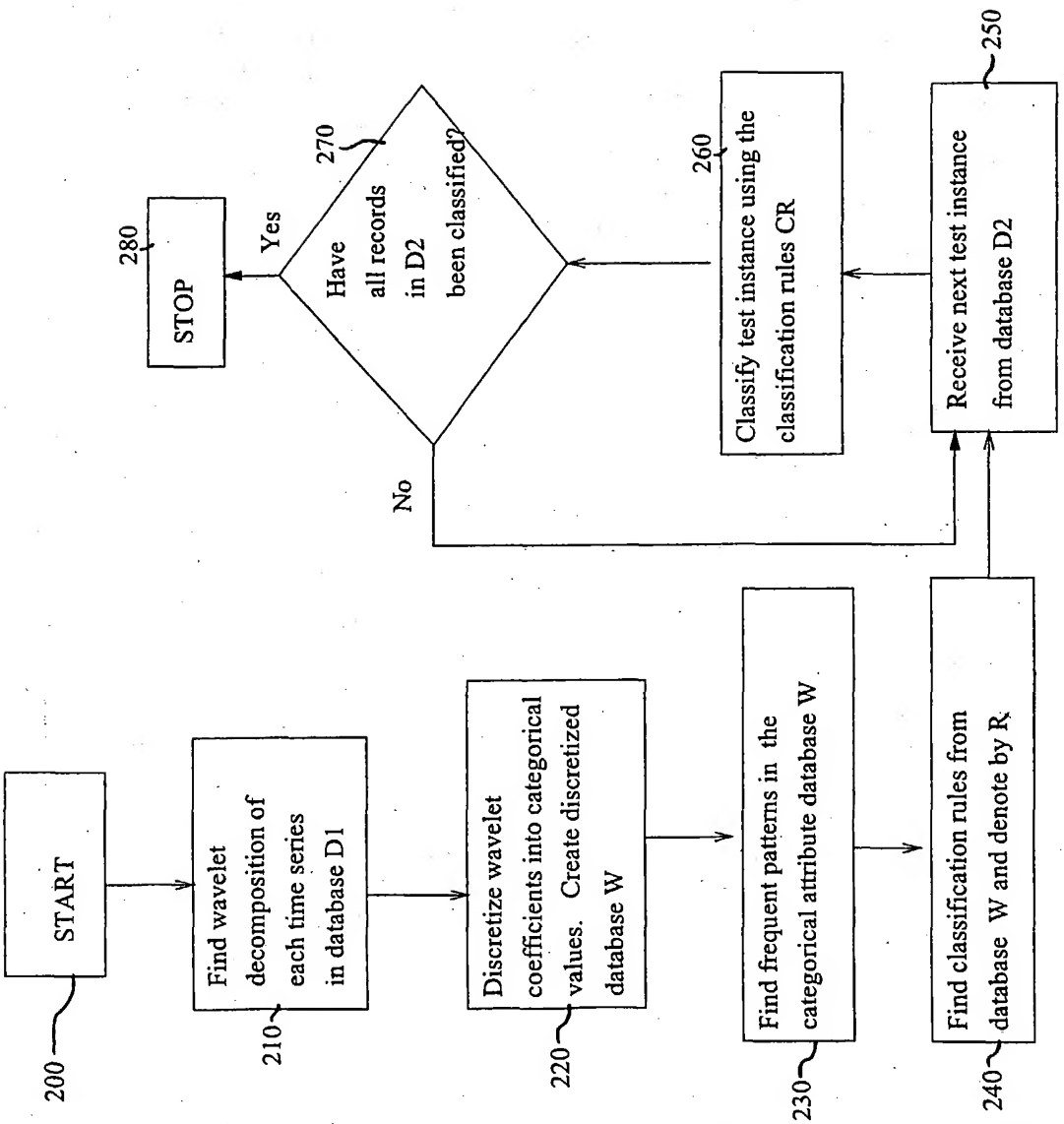

START
200
Find wavelet decomposition of each time series in database D1
210
Discretize wavelet coefficients into categorical values. Create discretized database W
220
Find frequent patterns in the categorical attribute database W
230
Find classification rules from database W and denote by R
240
Receive next test instance from database D2
250
Classify test instance using the classification rules CR
260
Have all records in D2 been classified?
270
Yes
STOP
280
No

FIG. 2

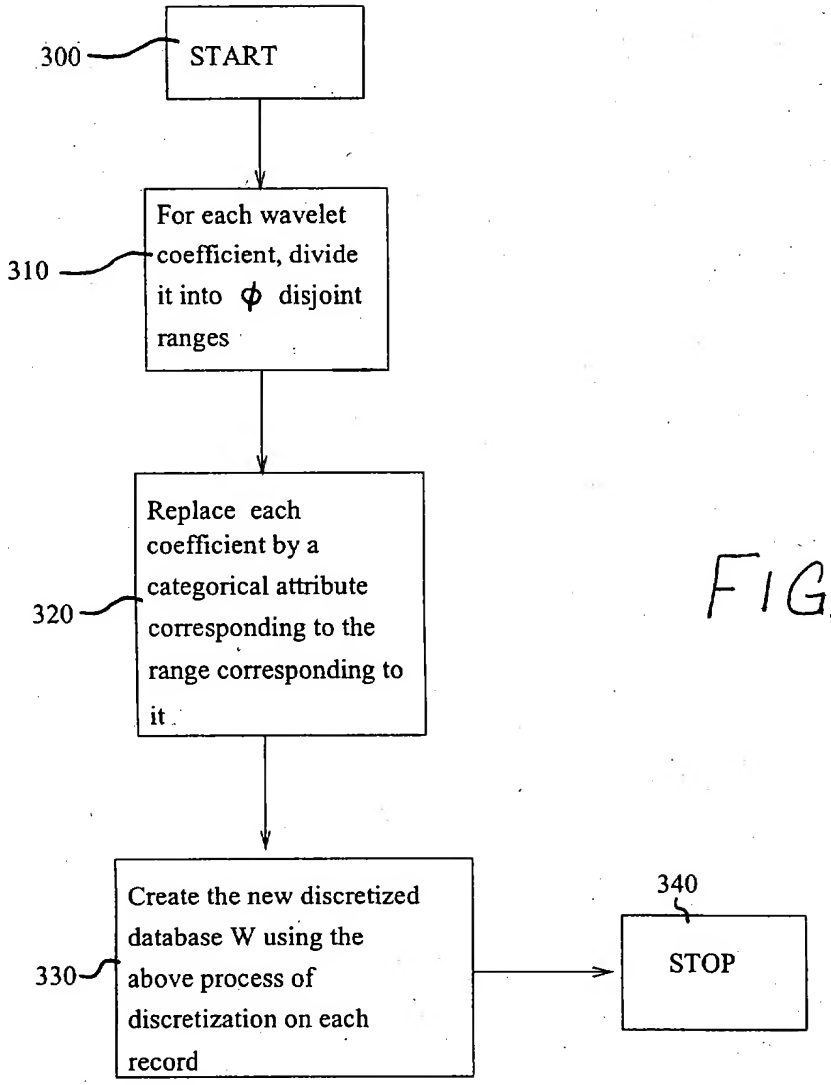

300
START
For each wavelet coefficient, divide it into ϕ disjoint ranges
310
Replace each coefficient by a categorical attribute corresponding to the range corresponding to it
320
Create the new discretized database W using the above process of discretization on each record
330
340
STOP

FIG. 3

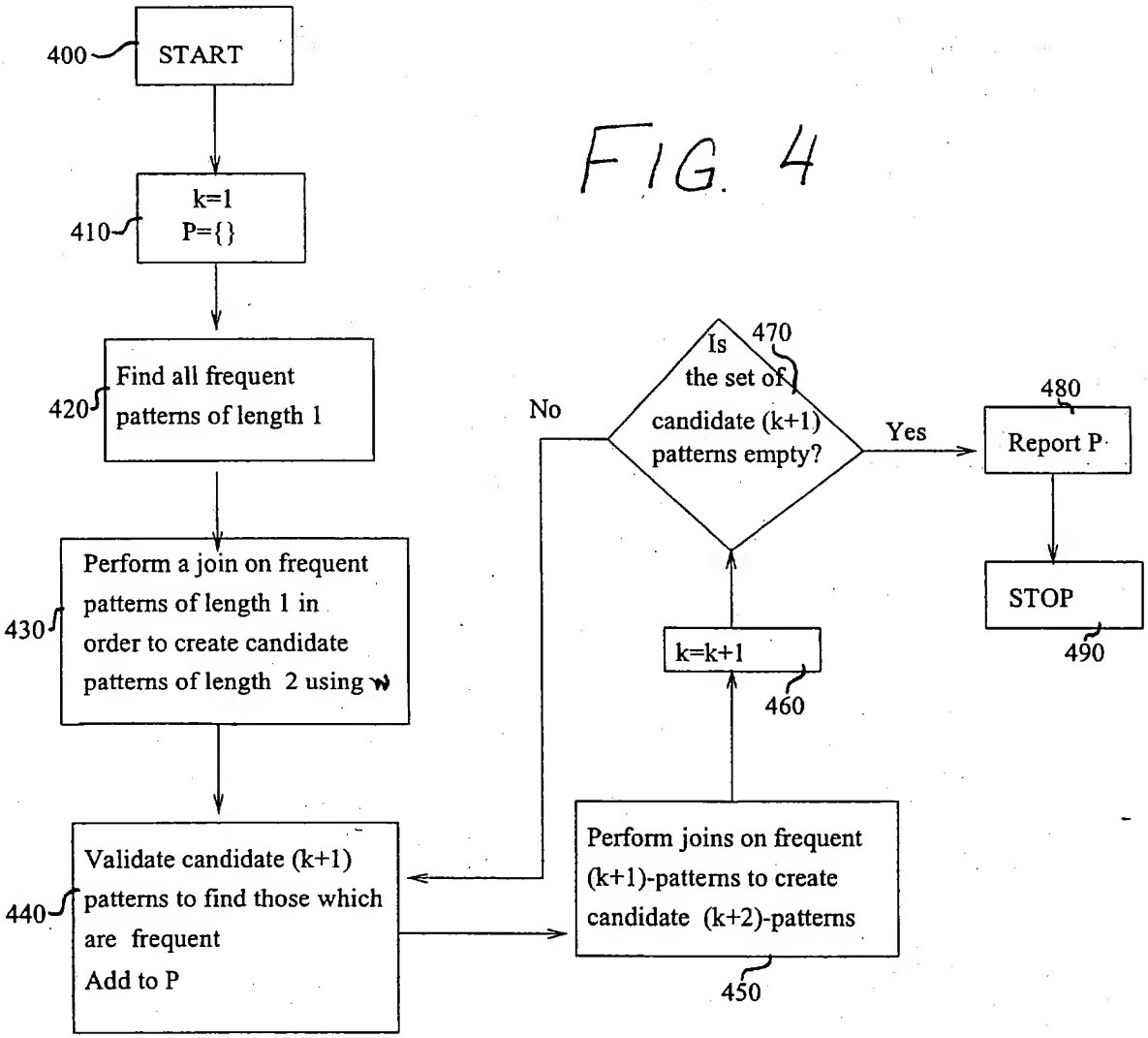


FIG. 4

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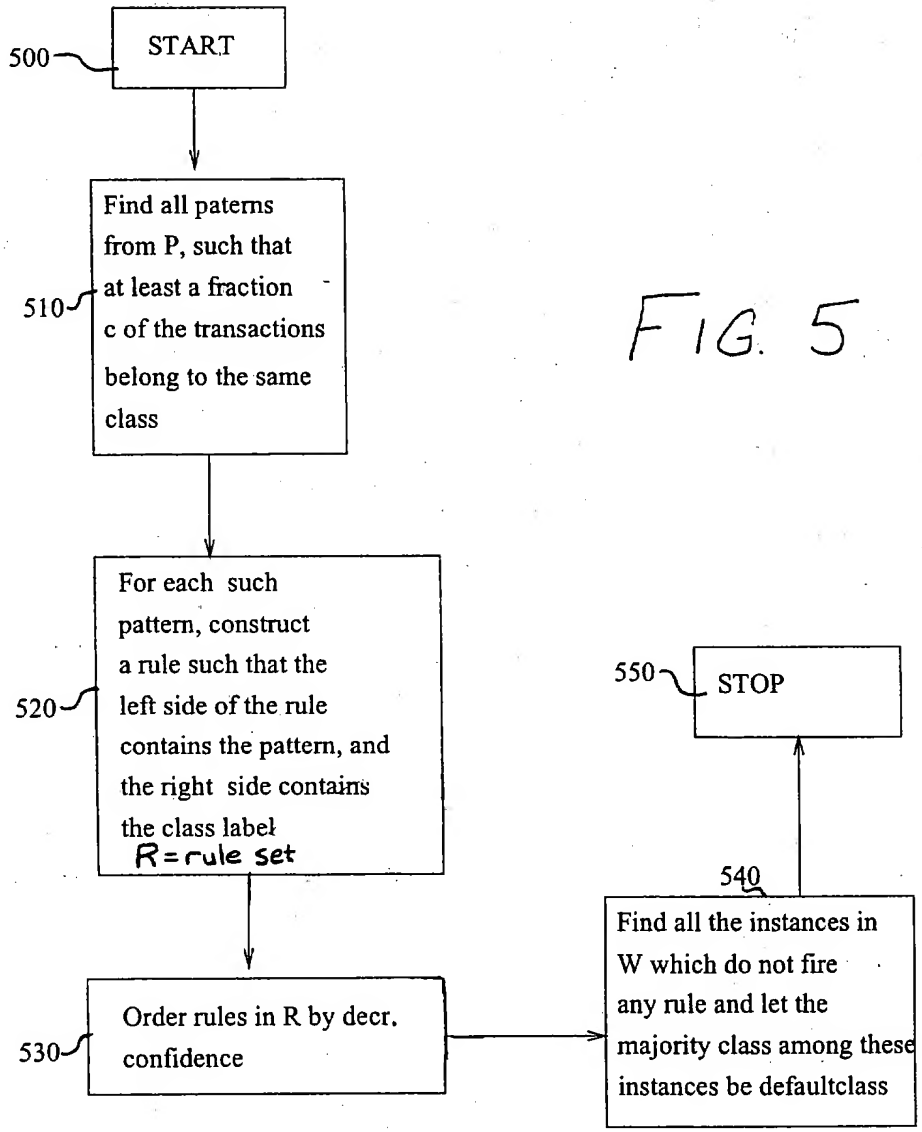
500
START
Find all paterns from P, such that at least a fraction c of the transactions belong to the same class
510
For each such pattern, construct a rule such that the left side of the rule contains the pattern, and the right side contains the class label
R = rule set
520
Order rules in R by decr. confidence
530
Find all the instances in W which do not fire any rule and let the majority class among these instances be defaultclass
540
550
STOP

FIG. 5

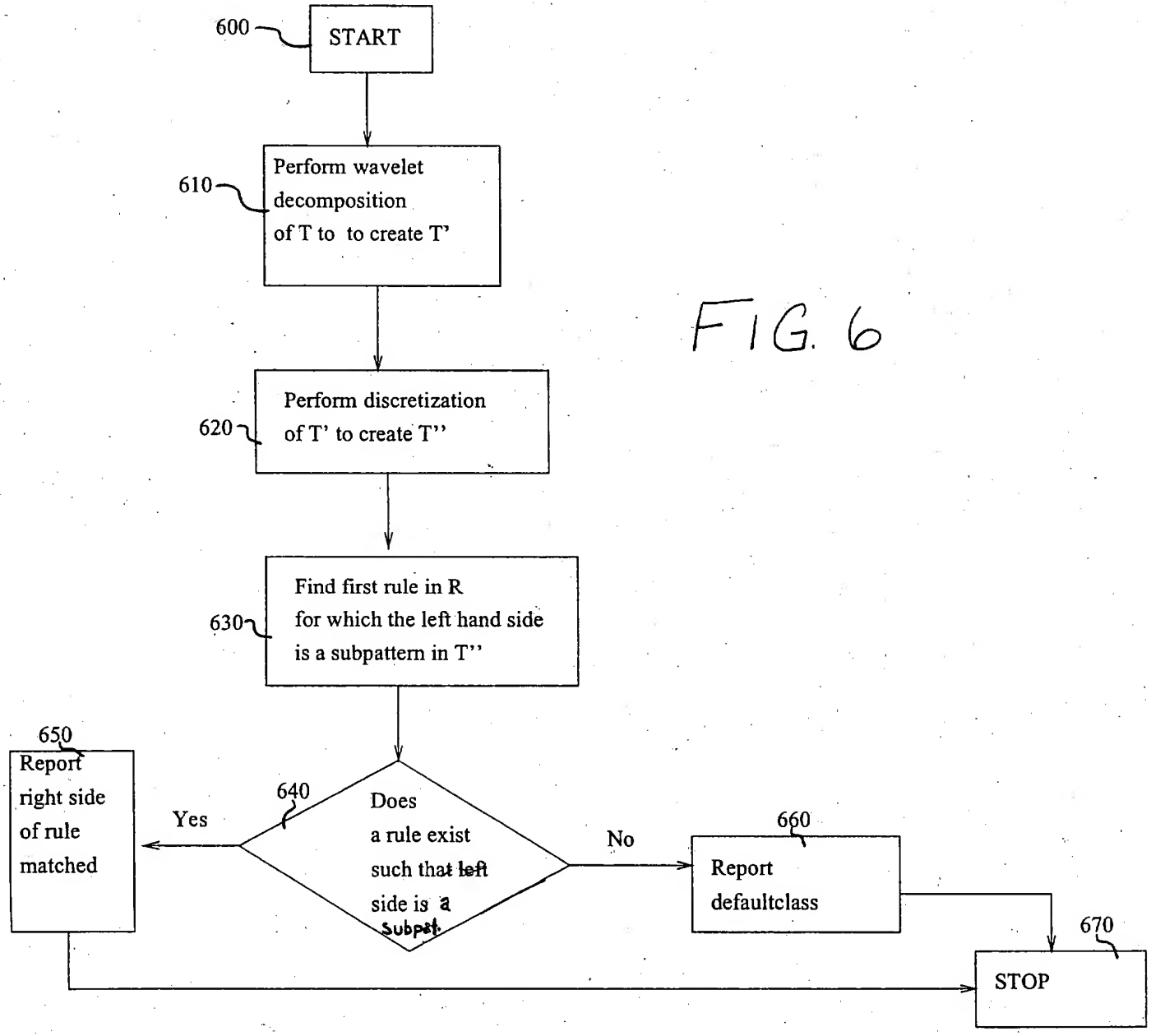
600
START
610
Perform wavelet decomposition of T to to create T'
620
Perform discretization of T' to create T''
630
Find first rule in R for which the left hand side is a subpattern in T''
640
Does a rule exist such that left side is a Subpat
Yes
650
Report right side of rule matched
No
660
Report defaultclass
670
STOP

FIG. 6

FIG. 7

Granularity (Order k)	Averages	DWT Coefficients
k = 4	(8,6,2,3,4,6,6,5)	-
k = 3	(7, 2.5, 5, 5.5)	(1, -0.5, -1, 0.5)
k = 2	(4.75, 5.25)	(2.25, -0.25)
k = 1	(5)	(-0.25)